

## **Sea Level Rise Advisory Committee Meeting – Infrastructure Break out group**

**February 15, 2011**

### **Facilitators:**

Bob Scarborough

Kim Cole

Drexel Siok

### **Participants:**

Nancy Lawson

Jim Kirkbride

Cindy Miller

David Carlson

Don Knox

Peggy Schultz

Chad Tolman

Victor Letonoff

Gerard Esposito

Robert McCleary

Tide gates in Wilmington under water each day.

Raise Tide gates??

Does state have these layers??

#### Roads

Breakdown roads into primary etc

Break out evacuation routes

Local roads, collection roads, minor/major arterial roads

Base on DelDOT road classification

At what cost do roads become abandoned and people moved

Legislation to not allow street money

Can't use this money on private roads

#### Powerplants

State of DE Mitigation plan has hazardous site storages

Vul. Assessment for Del Emergency Operation Plans

Critical Facilities list is confidential

Not looking for specific materials – just location and quantity

GIS layer shows location of significant hazardous material sites

Identify critical facilities report by DEMA, 3000+ facilities

County plans – contact emergency manager

State wide – contact DEMA

What are the hazards of storm surge not necessarily SLR – should we redirect to address inundation areas of storm surges

#### Railways

Hazardous waste on Railroads may be impossible to map because of their constant movement

Consideration of including nuclear powerplant in NJ because of the potential impacts to our state

DEMA looking to include SLR into next report due in 2013 – mitigation reports

Developers buy their own roads to get to their planned areas that are undeveloped?

Decision made at the city/county level and DeIDOT wont pave road to these areas

PLUS review makes recommendations/suggestions

Outreach needs to be done in order to educate public of potential threats and evacuation efforts

Bridges-

Some are very easy to replace and are easier than replacing the roads

Roads are much more difficult because of the weight of the material being used vs. the substrate

Prioritization

Risk vs Impact of the loss (importance)

How do we factor which should be abandoned

Cost/benefit analysis

High/Medium/Low

Land Use-

Local Planning needs to consider SLR when planning

Are we going to be putting developments in areas that could be inundated at each SLR scenario

DEMA contact – need a signed letter requesting the information and explaining the project (David Carlson)

<b>Infrastructure</b>			
Dikes/Levees/Millponds/spillways			
Tide Gates			
CSO			
Railroads			
Railway Stations and lines			
Roads	Classify by DeIDOT		
Evac Routes			
Powerplants	Include Nuc Plant??		
Substations			
Wells/Wellheads/Irrigation	Public and Private		
Septic Systems			
WWTP			
Chlorine assoc with WWTP	Haz Storage Site	State Fire School has listing of Haz Storage	
Critical Facilities	Arnie Cooksnan	DEMA	
Fly Ash piles assoc with powerplant			
Factories/refineries			
Port/Marinas			
Recharge Areas			
Landfills			
Superfund Sites			
Bus Stations/Routes	Specialized Transportation		
Residences/Apartments	WillMAPCO		
Undeveloped Land			
Development Area			
Airport			
National Guard facilities			
DeIDOT emergency facilities			
DNREC Facilities			
School buses as part of an evacuation plan	DART busses		
Communication Towers			
Jet Fuel Line for DAFB	All pipelines?		
Private Utility Lines	Natural gas etc		
Emergency Operation Centers			
Recreational Areas	le Boardwalk, Boat Launch		
Historic Areas/Buildings			
Inlets/Beach Infrastructure			
Cape May/Lewes Ferry and terminals			
Navigation Aides			
Bridges	Life expectancy	new/planned bridges	

**Comment [CY1]:** This table is the brainstorming portion of the session.

State/federal buildings			
Nursing Homes/Adult & Child Daycare			
Prisons/Juvenile Centers			
Land Use			

	Priority	Availability	Contact	
<b>Transportation</b>		Yes – DelDOT INFORM on website	-McCleary will let us know of a contact -DeWayne Day -Planning dept. GIS	Task someone to pull group together
Mass Transit	High			
ParaTransit – ADA	High			
ParaTransit – Non ADA	Low			
DART facilities	High			
School bus storage	Low			
DelDOT maintenance yard	High			
Roads	High			
Bridges	High			
Railroads – Stations/Lines	High			
Railroads – Holding Areas	High			
Airports	Low			
Ferry Terminal			DRBA	
Navigation Aids			USCG	
<b>Facilities</b>				
Fire			DEMA & Dept of Social Services	DEMA data has no elevation
Police			DEMA & Dept of Social Services	
Prisons			DEMA & Dept of Social Services	
National Guard				
DNREC				
Pumping Stations			DEMA & Dept of Social Services	
Power Plants			DEMA & Dept of Social Services	
Substations			DEMA & Dept of Social Services	
Emergency Ops			DEMA & Dept of Social Services	
Hospitals			DEMA & Dept of Social Services	

**Comment [CY2]:** Categorized data needs.

Daycares			DEMA & Dept of Social Services	
Nursing Homes			DEMA & Dept of Social Services	
Senior Centers		Yes	DEMA & Dept of Social Services	
Shelters			DEMA & Dept of Social Services	
Refineries			NPDES, DNREC	
Factories				
WWTP			DEMA & Dept of Social Services	
Ports				
<b>Public Interest</b>				
Historic Sites			SHPO	
Marinas			Subaqueous/F&W	
Boat Launches			F&W, subqueous	
Haz Waste Sites			DEMA & Dept of Social Services	
Superfund			DNREC air and waste	
Landfill			DE Solid Waste Auth.	
Residential Homes			Counties/Municipalities	UD prof has dots of houses
Dams/Spillways			Dave Twing	
Dikes/Levees			DCP	
Tide Gates			DCP, Municipalities, USFW, DNREC, DeIDOT	
Tide Gauges				NOAA Tides & Currents
CSOs			City of Wilmington	
Wellheads			DNREC, permitting	
Septic Stations			DNREC, permitting, county	
Cemetaries	Low		Public health?? State historic preservation office	
Coastal Structures			Shoreline and Waterways (Pratt), USCG	
Communication Towers			Permitting? State Police, DEMA?	Only those along coast? Private companies
Private Utilities				Survey private

				companies? Not likely to give up locations
Public Utilities			DelDOT has list of companies to contact (McCleary), Public Services	
Wind Generation	Low		UD	

DRAFT